

DURATIQ™ 5

Ultra-compact DURATIQ™ technology



POWER MEETS VERSATILITY



8 800 mm / 32 in
 6 600 mm / 24 in
 5 515 mm / 20 in

UP TO
152%
 productivity increase
 with system synergies*

- ✓ **Ultra-compact size and modular design for optimal ergonomics**
- ✓ **Available in 1-phase and 3-phase electrical variants**
- ✓ **DURATIQ technology including a digital HMI for maximum control of machine performance**

DURATIQ™ 5

POWER MEETS VERSATILITY

In September 2016, HTC set an entirely new standard for floor grinders with the new DURATIQ platform. HTC is now introducing a new addition to the series: HTC DURATIQ 5 – a unique combination of intelligence and raw power in a compact format.

The DURATIQ 5 is a floor grinder with unmatched versatility for professional users. With its ultra-compact size, it's a powerful tool for all types of grinding jobs in various environments, but without compromising on DURATIQ's unique technology.

Experience a machine that combines power and versatility with unmatched ergonomics.

P. 4-7
Versatility

P. 8-11
Productivity

P. 12-13
Reliability

P. 14-15
Operability

* Refers to productivity tests conducted with a HTC 420 and a HTC DURATIQ T5 2.2 kW fitted with the Mist Cooler System that produced 152% higher performance. The same test conducted with a HTC 500 and a HTC DURATIQ T5 4 kW fitted with the Mist Cooler System produced 86% higher performance.

One size. Two variants. Unlimited opportunities.

4.0 kW

~ 3-phase

~ 1-phase

ELECTRICAL VARIANTS

3 x 230 V 16 A / 1 x 230 V 30 A
3 x 400 V 10 A
3 x 480 V 10 A

STANDARD

Weight package 2 x 20 kg
AirFlow™ tool holder

OPTION

Water package, MCS
Lighting kit
Cable
Mug holder
Phone holder



Shown with extra options.



Shown with extra options.

2.2 kW

~ 1-phase

ELECTRICAL VARIANTS

1 x 230 V 13 A

OPTION

Weight package 2x20 kg
Water package, MCS
Lighting kit
Cable
Mug holder
Phone holder

One machine. Many applications.

- ✓ Concrete
- ✓ Coating removal
- ✓ HTC Superfloor™
- ✓ Terrazzo
- ✓ Wood/parquet
- ✓ Natural stone
- ✓ Limestone
- ✓ Granite
- ✓ Leveling compounds

The DURATIQ 5 is a multi-functional floor grinder. Whether the job requires grinding away a stubborn coating, smoothing a wood parquet floor or transforming a concrete floor into a high-gloss HTC Superfloor™, the grinder is up for the task at hand. The grinding width of 515 mm (22.4 inches) is best suited for small and mid-size surfaces, and its compact dimensions enable the grinder to be used in tight quarters.

With the integrated weights (optional on the 2.2. kW model), three different grinding pressures are available to help ensure the maximum grinding pressure no matter what the application. The weights can be easily removed before transport for easier handling.

Are you new to floor grinding? The DURATIQ 5 is a perfect entry model, and along with HTC's broad assortment of tools, you'll be fully equipped for a variety of grinding jobs.

Tools that make the difference

HTC's tool assortment includes tools for all conceivable grinding jobs - everything from coarse grinding to polishing. Compatible with the DURATIQ 5.

> **120**
various HTC tools
compatible with DURATIQ 5

EZchange™

Changing tools goes quickly with our EZchange system. All you need is a tap of a hammer to remove or mount new tools.



Take control of performance

Just as the larger models (6 & 8), the HTC DURATIQ 5 is equipped with an intuitive digital control panel (or HMI as we call it, for Human/Machine Interface). It'll give you all the control and precision you'll ever need to maximize grinder performance.

DURATIQ's proven HMI makes the grinder extremely easy to control and use, especially for operators with limited experience.

The difference is like driving a car with or without a dashboard.



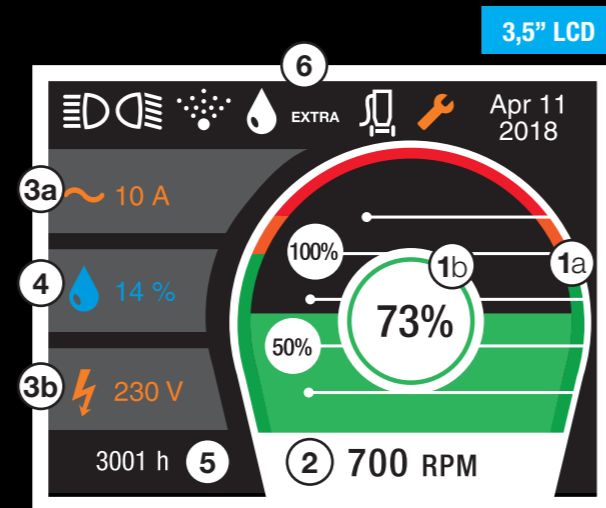
USB & CHARGING

Download operational data, update software and charge your mobile devices.



LOCK FUNCTION

Activate a PIN code for increased security and control of the machine.



Intuitive and smart

1. Power meter. Shows available (1a) and used (1b) power.
2. Grinding disc RPM
3. Motor current (3a) Voltmeter (3b)
4. Water supply/ Mist Cooler System or Overload Protection
5. Counter. Hours (h)/ Kilowatt hours (kWh)
6. Activated functions, service indicator, error messages, clock, date



Unique benefits within reach

- ✓ Operational info in real-time
- ✓ Control all functions from a single location
- ✓ Easy-to-use

A power pack to reckon with

Having ample electrical power for a grinder is fundamental. But being able to extract maximum power from the available supply cannot always be taken for granted. With the DURATIQ 5, the frequency converter (VSD), electrical components, motor (IE3¹) and grinding head interact so that as little energy as possible is lost.

Along with improved efficiency and precision, grinding performance increases to a level that is unique in the industry for this machine size.

The DURATIQ 5 can simply do more.

UP TO
78%
Increased productivity²

Water makes the difference

DURATIQ features a number of innovations that all interact to increase efficiency. One of the most important optional functions for the DURATIQ 5 model is the MCS (Mist Cooler System¹). The system sprays a fine mist of water on the floor, which cools the diamond tools during grinding and significantly improves performance. The results are increased grinding efficiency and service life for your HTC Original Diamond Tools.

The MCS is included as a part of the water package option, which also enables wet grinding with external connection of water hoses.

Mist Cooler System

- Wide water jet with optimized angle
- On/off via control panel
- Three different water flows
- Easily accessible nozzle
- Auto-venting pump

What is the difference?

DURATIQ 5 - 2,2 kW

41%
increased performance
with MCS activated²

DURATIQ 5 - 4,0 kW

74%
increased performance
with MCS activated³

¹ IE3 motors are more efficient

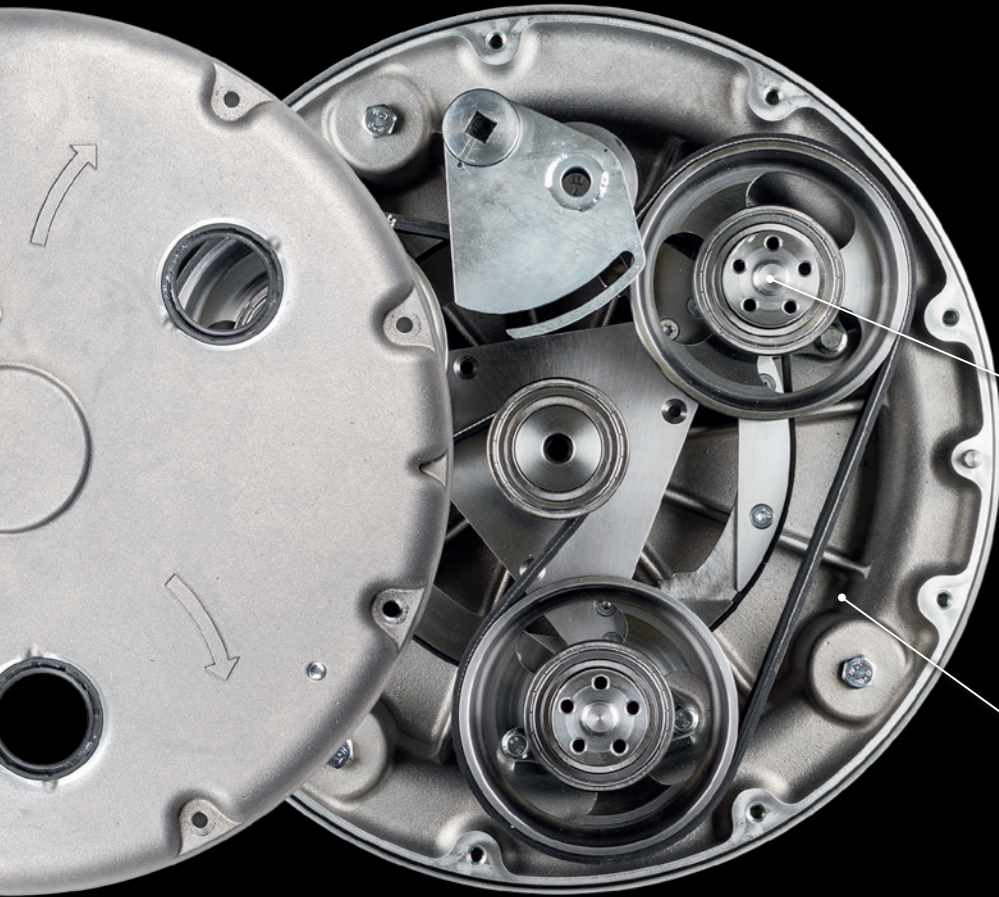
² Refers to productivity tests conducted with a HTC 420 and a HTC DURATIQ T5 2.2 kW without Mist Cooler System that produced 78% higher performance. The same test conducted with a HTC 500 and a HTC DURATIQ T5 4 kW without Mist Cooler System that produced 7% higher performance.

¹ Available as an option for both T5 2.2 kW and 4 kW.

² Refers to productivity tests conducted with a HTC DURATIQ T5 2.2 kW without MCS and a HTC DURATIQ T5 2.2 kW with MCS.

³ Refers to productivity tests conducted with a HTC DURATIQ T5 4.0 kW without MCS and a HTC DURATIQ T5 4.0 kW with MCS.

Power and precision come from within



The actual heart of the DURATIQ 5, the grinding head, is based on the same innovative technology as the larger models 6 and 8. The dust-proof design and precision of the heavy duty components provide high reliability and increased precision for grinding results.

Heavy duty components

Bearings and belts of very high quality along with high precision construction mean more operating hours and less downtime. Everything is hermetically sealed inside the grinding head to protect against dust and moisture. This means long service life for components.

Precision-cast in two parts

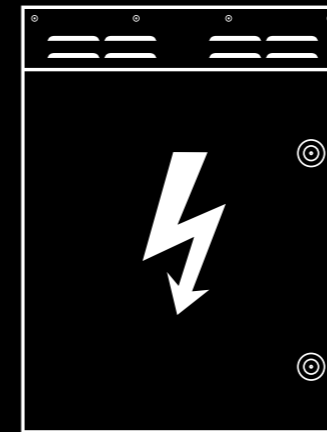
The entire head is cast in two parts with a precision fit, easy to open/dismantle. The parts are sealed with O-rings, to avoid messy sealants.

The new DURATIQ line is the most thoroughly tested machine in HTC's history. Three-thousand hours of meticulously monitored tests have been conducted both in test environments and under actual working conditions. Each component has been carefully selected to provide maximum reliability.

Keep out dust and moisture

The electrical components on the DURATIQ 5 are neatly organized in a newly designed, dustproof cabinet. This significantly improves both reliability and serviceability.

Despite the fully sealed design, heat is kept at a lower level than in conventional electrical cabinets. You can also keep an eye on heat levels via the HMI panel and avoid downtime.

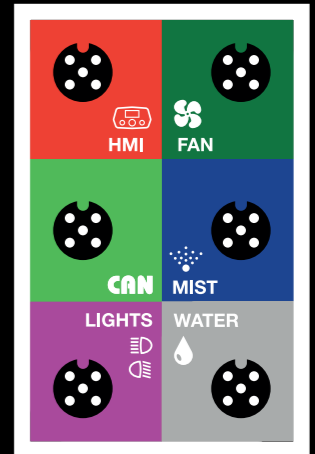


- Dustproof cabinet**
A sealed cabinet with external cooling keeps dust on the outside.
- Less heat**
Less heat produced in the cabinet significantly increases the service life of electrical components.
- Fewer components**
Fewer components in the cabinet mean less downtime and easier service.

1000 hrs
Service interval
1000 hours/1 year*

*Whichever occurs first.

> 3000
hours of testing



External panel for making connections

Easily connect equipment without needing to open the electrical cabinet.

Versatile. And ergonomic.

The DURATIQ 5 is based on an entirely new chassis design with full attention to the center of gravity, adjustable weights, maneuverability and feel. This makes the DURATIQ 5 easier to operate, with better ergonomics and increased safety. The compact format and smart solutions, like the modular design and the possibility to retract the handlebar and weights, also make the DURATIQ 5 easier to transport. Who says that floor grinding has to be strenuous?

MODULAR

The chassis is easily separated from the grinding head prior to transport. Quick coupling for motor cable.

ERGONOMIC CARRYING HANDLES

Ergonomically designed handles are easy on the hands and facilitate lifting.

LINE OF SIGHT

Compact design provides a better line of sight when grinding.

LED LIGHTING

Three strong, freely positioned LED lamps provide great workplace lighting.

LARGE, SOFT WHEELS

Large, soft, puncture-proof wheels make thresholds and stairs easier to navigate.



REMOVABLE WEIGHTS, 2x20 kg

Ergonomically designed weights are easy to lift on and off. Large handles make them easy to handle. Stable on flat surfaces.

20
variable handle
settings

Chassis weight
(2.2 / 4 kW)

50/57 kg

Grinding head weight
(2.2 / 4 kW)

72/82 kg

Extra weights
(Standard on 4 kW)

40 kg

TOTAL WEIGHT
(4 kW incl. extra weights)

179 kg

How to configure your DURATIQ T5


1 Choose basic model

Electrical variant


2 Choose optional function

Water package
Mist Cooler System and wet-grinding


3 Choose accessories




Lighting package




Weights, 2x20 kg



Electrical cable

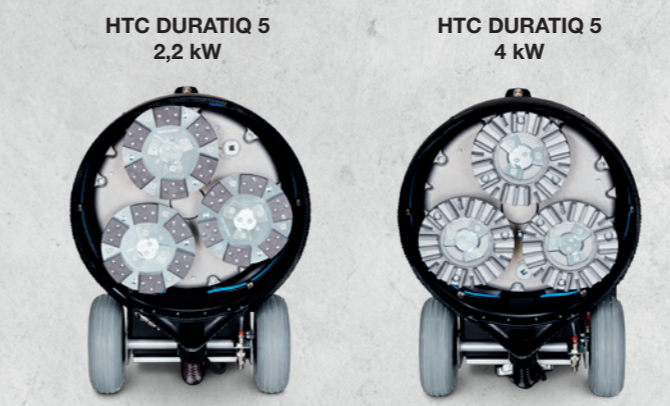


Mug holder



Phone holder

T Three grinding heads
S Grinding width 515 mm



Technical specifications

Model		HTC DURATIQ T5 2.2 kW	HTC DURATIQ T5 4.0 kW
Motor power	kW	2.2	4.0
Electrical variant		1 x 200-240 13 A	1 x 200-240 V, 30 A 3 x 200-240 V, 16 A 3 x 380-415 V, 10 A 3 x 440-480 V, 10 A
Total machine weight	kg	122	179
Chassis weight (incl. any weights)	kg	50	97**
Grinding head weight	kg	72	82
Grinding width	mm	515	515
Grinding pressure	kg	70*	78-88-119**
RPM, grinding discs	RPM	360-1200	360-1200
Water tank	l	2.9 l#	2.9 l#
Grinding discs	Ø mm	3 x 230 mm	3 x 230 mm
Recommended minimum cable area	mm ²	2.5	6/2.5

* Weight package available as option and enables grinding pressure in three modes: 70, 88 and 119 kg
** The model is equipped with weight package as standard
Water tank included with water package option

>75 new functions

DURATIQ 5 brings together HTC's extensive experiences with a completely new approach to all components.

Grinding head

Longer service interval

Longer service interval of 1,000 hrs.

Increased torque

More torque means a stronger machine and improved grinding process.

Stable grinding head

Two-part grinding head in cast aluminum produces less vibration and a more uniform scratch pattern.

Sealed grinding head

Hermetically sealed grinding head protects essential components from moisture and dust. Dual sealing for moving parts.

New improved bearings

The bearings have extended service life just like earlier DURATIQ models.

Auxiliary bearings

Auxiliary bearings on each grinding shaft stabilize and increase service life.

O-ring

O-ring seals the grinding head to make it easy-to-open/close the grinding head without the use of messy sealing agents.

Easily opened grinding head

Easy grinding head access saves considerable time during service.

Enclosed belts

Belts protected by a dust-free and moisture-free enclosure provide longer service life.

Long-lasting belts

Multi-rib belts for long service life.

Automatic belt tensioning

With the elastic secondary belt, correct tension is always assured.

Simple belt tensioning function

Easily tension the primary belt without opening the grinding head.

Newly designed grinding cover

Newly designed grinding cover without seals, makes it easier to clean.

Grinding cover with improved dust collection

Better dust collection with newly developed floating grinding cover.

New wear-resistant dust outlet

Optimal discharge flow for dust with new dust outlet that is easy to clean and replace as necessary.

Heavy duty grinding holder bracket

Improved durability and easier to change. Same as DURATIQ 6 & 8.

New bushings between chassis and grinding heads

Bushings with more rubber reduce vibration.

Ergonomic lifting handles

Ergonomic handle design facilitates moving grinding heads.

Same grinder holder and tools

Same 230 mm grinding holder as DURATIQ 6. Also enables use of all EZchange tools.

Chassis

Balanced center of gravity

Easy to tilt the machine for tool replacement.

Integrated weights

Balanced and easy-to-handle weights with 3 different positions (forward, reverse and removed).

Lifting points

Integrated lifting points on chassis.

Tensioning points

Integrated tensioning points on chassis.

Reliable wheels

Large and soft solid wheels do not get flats.

Tires that leave no marks

High quality rubber that doesn't leave marks on the floor.

Compact design

Shorter wheelbase and more compact design mean better line of sight and tighter turning radiuses compared to the previous HTC 420 model.

20 different settings

Four rough adjustments and five fine adjustment steps for the handlebar brace.

Variable settings for handlebar

Easy to find right position with variable fine adjustment of handlebar. Handlebar can be gripped in many different ways.

Suspended mug holder accessory

Place drinks in freely suspended holder on the handlebar.

Phone holder accessory

Holder that fits most phone models.

Electrical connector with cable

Easier cable handling when tilting the machine, for example.

Cover with quick fastener

The cover fastens with a magnetic lock and can be easily opened, which saves time during service.

New placement of camlock connection

Keep the hose connected to dust extractor during tool replacement.

Flexible hose handling

Free placement of dust hose using adjustable strap.

Electrical

Fewer unique electrical components per model

Simplifies inventory management and troubleshooting.

IE3 motor

Higher motor efficiency. Machine uses less power for same amount of work.

More energy efficient

Uses less power for same amount of work compared to previous models (HTC 420/500).

Sealed electrical cabinet

External cooling means a dust-proof cabinet and lower heat, which increases reliability and extends component service life.

Warning for high electrical cabinet temperatures

Temperature sensor warns of overheating via the HMI display.

UL approved and certified

Complies with UL standard for US and Canadian markets.

24 VDC control voltage

Makes machine safer and with fewer components.

Frequency converter of highest quality

Vector-controlled for more torque.

CAN bus electrical system

Future-safe and reliable electrical system.

Standard fuses

All fuses are ATO midi type.

Strain relief

Electrical cable connection with strain relief.

Quick connectors for electrical accessories

Connect accessories, such as lights, without opening the electrical cabinet.

Integrated EMC filter

Produces low leak currents and minimizes problems with ground fault breakers.

HMI

3.5-inch color display

One display for all machine information and settings at a single location.

Power meter

Shows available and actual power.

RPM counter

Allows operator to control grinding head speeds.

Dual counter

Shows total machine hours and kWh.

Warning signals in symbol and text format

Clear warnings about operational problems on the screen prevent possible breakdowns.

Service indicator

Information about service requirements. More information available via QR codes for digital support page on Internet

Multi-faceted USB port

Recharge a phone, upgrade software or export log data.

Choose direction of rotation

Option to choose direction of rotation for grinding discs.

Remote connection of dust extractor

Turn off and on, clean the filter and receive information from the dust extractor via the HMI panel.

PIN code

Block the machine from use by unauthorized persons with a PIN code.

Adjustable display

Easily adjust the angle of the HMI display.

Choose units of measurement

Display in either metric or imperial units of measurement.

Time and date

Time and date display on control panel.

Input voltage

Gauge for input voltage provides overview of network quality, connecting cables, etc.

Motor current

Gauge for motor current shows actual torque.

Water

Water flow control

The water volume used during wet-grinding can be controlled from the HMI panel. Automatic on/off during grinding.

Water hoses with quick couplings

Easy to check.

Water connection

Easy access to water connection with quick coupling. Connected directly to water line.

Easily accessible water filter

Easily accessible, transparent water filter under service cover.

Enclosed water tank

Water tank with cap protects the system against dust. Easy to drain.

Water level indicator

Warning for low water level via HMI panel on the machine.

Retrofitting of water package

Choose water package as option or install later. Water package includes MCS system.

Airless MCS system

No need for venting the MCS system.

New MCS pump

New self-venting water pump (24 VDC) with longer service life, more power and higher flow.

MCS with three flow modes

Controls water flow in three modes for Mist Cooler System (low, medium, high).

Light

Lighting control

Turn the lights on and off individually, front and back, via the control panel on the machine or remote control.

Flexible LED lighting accessory

Magnetic attachment and long spiral cables for flexible use.

Retrofitting of lighting package

Choose the lighting package as an accessory. Retrofitted.



AN ULTRA-COMPACT POWER PACKAGE

The DURATIQ 5 is a compact package of power that combines power and versatility in an entirely new way. Ultra-compact and at the same time fully equipped with the latest DURATIQ technology, the machine can handle even the toughest grinding jobs.

It's never been simpler – or more effortless – to achieve impressive results.

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